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Declass Review by NGA.

18 January 1967

REGISTERED

Reference: (a) Letter 9 September 1966 - "Film Drive Modifications to 552 Equipments"

(b) Letter 9 September 1966 - "Encoder Installations to 552 Equipments"

(c) Letter 28 November 1966 - "Interferometer Mensuration to 552 Equipments"

(d) Letter 2 December 1966 - "Measurement Improvement on 552 S/N 101 Equipment"

Subject: Quotation for Modification of 552 Type Equipments to Include Film Drive and Encoder Installations

Gentlemen:

In accordance with your telephone request of January 11, 1967,
 is pleased to submit herewith our quotations for the following:

1. Installation of encoders and counters, including cabinetry, on the 552A S/N 101
2. Installation of power assist film drives on 552A S/N 101
3. Installation of film drive systems on equipment 552 S/N 101

In addition to the above, we are also including quotation for adding the cam corrected encoder configuration to the 552A S/N 101 quotation for encoder installation.

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As described to us on the phone, the installations of the encoders and film drives must be accomplished sequentially rather than concurrently. We shall therefore accomplish the activities on the 552 S/N 101 equipment first, i.e., installation of power assist film drive. Once this equipment is completed and operational and accepted, effort will then be taken to install the power assist and encoders on the 552A S/N 101 system. To save costs we will fabricate at the same time both power assist systems within our factory. The actual installation will only be made sequentially.

As has been discussed previously and mentioned in reference (d), we would suggest that at the same time the encoders are added to the 552A equipment, the cam correction approach also be added. As you are well aware, the inherent accuracy of the 552A equipment is limited by the basic structural approach used. We feel considerable accuracy can be added to the equipment by the use of the cam approach with every expectation that the overall system accuracy can be kept within eight microns by use of the cams. By adding only encoders, we are not in a position at this time to state the accuracy expected. Under all circumstances without the cam approach the accuracy would certainly be no better than that already achieved on the 552 equipments.

At the same time that the above modifications are made to the equipments referenced above, we would suggest that you consider the inclusion of interferometric mensuration on the 552 or the 552A equipments. Reference (c) goes into sufficient detail with respect to these modifications. If you wish, we would be pleased to visit your facility and discuss this matter in detail.

The following are the modifications we are proposing to make at your facility:

552-#101 System

1. Add Power Assist Film Drive. Aside from modifying circuit on system, writing top will have to be removed and modified at the factory. Electrical work on system will be completed concurrent with work at factory.

552A-#101 System

1. Add Power Assist Film Drive when work on 552-#101 is completed. Writing top will also have to be removed for factory modification with concurrent electrical work.

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2. Add (4) [] model 27-625Z encoders, their mechanical mounts and associated cables on system carriage assembly.

3. Provide modified Emcor caster mounted cabinet containing

(4) [] Model 2826C Reversible Counters

(1) [] Model 2030B Card Punch Coupler

(1) [] Model 2825B Control Panel

(1) [] Switch Assembly 701436

(1) [] Arm-Mounted Sloped Front Cabinet for
[] Control Panel Above

(1) Set of Associated Cables to Interconnect the Above Items

This cabinet will be identical to that supplied for the 552-#101 system, with the only change substituting [] 2030B Card Punch Coupler for [] 2827B Synchronizer previously supplied so that measurement system is compatible with the IBM 526 Card Punch.

It is suggested that you take under consideration the substitution of a new [] encoder for that proposed and used on the 552 equipments. The encoder used on the 552 is Model No. 27-625Z. A new [] model is now available which improves performance and reliability of the encoder. The new model number is 29-625Z. The new model is slightly less expensive but obviously will include some drawing changes and some changes in the installation. Therefore the overall cost to the Government will be identical. If you are interested in such a change in encoder models, please indicate same at the time of purchase.

Cost analysis sheets applicable to the film drive modifications on both equipments are included. The cost analysis sheet for the encoder and readout installation and for the cam adjusted encoder mounting are also enclosed for your consideration. These quotations are made on the basis of a fixed price contract independent of any existing contracts with your agency and should include progress payments in the amount of 75%. We would request that any resulting contract also stipulate that final payment for the

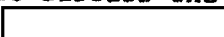
X1



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tasks defined above be made within thirty (30) days upon installation and acceptance. The proposal submitted herewith is valid for sixty (60) days from the date of this letter. The effort described herein will be completed within five (5) months after authority to proceed.

If you desire any additional information or wish to discuss the approach suggested above, please do not hesitate to contact  for technical matters and the undersigned for any other information.

25X

Very truly yours,



25X

Executive Vice President

LHS/aw

Enc. (2) Cost Analyses

BEST COPY
AVAILABLE

25X1

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Next 2 Page(s) In Document Exempt

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Work Statement for Encoder Install

The following is the work [] will perform and materials that will be supplied to install encoders and counters on 552A -101.

25X1

1. Purchase and fabricate brackets and electrical cables to install four (4) [] Model 27-625 Optisin Encoders on viewer scanning mechanism lead screws. 25X1

25X1 2. Fabricate and purchase necessary components to install [] Switch Assembly, part number 701486-1, with additional provision for an AC power receptacle rear panel for keeping power on [] Synchronizer at all times. 25X1 This Switch Assembly will include four (4) [] Model 15EL-44 modules to interface encoders and counters. 25X1

3 Fabricate and install [] Sloped Front Cabinet, part number 602090, to house [] Model 7925B, Control Panel. 25X1 25X1

4. Fabricate and install arm and associated customer's cabinet reinforcements for above Sloped Front Cabinet.

5. Provide services to ensure proper encoder signals to counters.

Customer will provide following and will take responsibility for its debugging, testing and operation:

EXHIBIT "B"

Continued

25X1

1. (4) ☐ Model 2825C Reversible Counters

25X1

2. (1) ☐ Model 2827B Synchronizer and Card Punch
Coupler

25X1

3. (1) ☐ Model 2825B Control Panel

25X1

4. All necessary cables to interconnect above units and
to ☐ Switch Assembly, except those from the encoders.

5. Suitable cabinet for above, properly equipped
with forced ventilation, panels, casters and clearances for
customer supplied equipment and cables.

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ITEM NUMBER	DESCRIPTION OF ITEMS	UNIT PRICE	TOTAL
	<p>Performance and Install Regulating Equipment For a Fiber Optic Visual</p> <p>Completed this order</p> <p>I CERTIFY THAT THE APPLICABLE DELIVERABLE ITEMS AND/OR SERVICES HAVE BEEN RECEIVED AND ACCEPTED.</p> <p><u>130-1-17</u> Date</p>	<div data-bbox="1084 919 1312 1008" style="border: 1px solid black; height: 40px; width: 140px;"></div>	<p>25X</p>
	<p>This document contains information affecting the national defense of the United States within the meaning of the Espionage Laws, Title 18, U.S.C. Sections 793 and 794. The transmission of the revelation of its contents in any manner to an unauthorized person is prohibited by law.</p> <p>CONFIDENTIAL</p>	<div data-bbox="706 1465 1274 1554" style="border: 1px solid black; height: 40px; width: 350px;"></div> <p>EXCLUDED FROM AUTOMATIC DOWNGRADING AND DECLASSIFICATION</p>	<p>25X</p> <p>GROUP 1</p>

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25X1

12 July
[Redacted] NR
Carol file # 02067

PREPARED BY

REFERENCE

U.S. Government

55-8651-67

DATE OF CONTRACT/ORDER

12 May 1967

This contractual document is entered into as of the date above, by and between the United States of America, hereinafter called the Government represented by the Contracting Officer executing same, and the below named Contractor, hereinafter called the Contractor. The parties hereto agree that the Contractor shall furnish the facilities and deliver the supplies and services set forth herein for the consideration stated.

IMPORTANT
IF "X" APPEARS
IN THESE SPACES

☒ **CONTRACT-** The rights and obligations of the parties hereto shall be subject to and governed by the Schedule and the terms and conditions on the attached General Provisions (Form No. 1424 A & B edition). To the extent of any inconsistency within the Schedule and the General Provisions, the Schedule shall control.

☒ **TASK ORDER-** The rights and obligations of the parties hereto shall be subject to and governed by this Task Order consisting of the Schedule and all terms and provisions of the Basic Contract indicated above, which is incorporated herein by reference and made a part hereof. To the extent of any inconsistency between Basic Contract and this Task Order, this Task Order shall control.

DATE(S) OF DELIVERY

7 July 1967

DISCOUNT TERMS

Net 30 days

DELIVERY F.O.B.

☒ DESTINATION

OTHER (AS SPECIFIED IN SCHEDULE)

SCHEDULE

ITEM NO.	SUPPLIES OR SERVICES	UNIT	QUANTITY (NO. OF UNITS)	UNIT PRICE	AMOUNT
	SCOPE OF WORK: The Contractor shall fabricate and install Digitizing Equipment for a Government owned Fiber Optic Viewer in accordance with the Contractor's Proposal No. P-115, dated May 2, 1967, which is incorporated herein by reference and made a part of this contract. GOVERNMENT FURNISHED PROPERTY: The Government will provide the following property for use by the Contractor under this contract: One (1) [redacted] Fiber Optic Viewer	Job 1			

ACCOUNTING CLASSIFICATION

TOTAL AMOUNT

THE UNITED STATES OF AMERICA

CONTRACTING OFFICER

PROCUREMENT AUTHORITY / CERTIFICATE OF AWARD

THIS CONTRACT ADVERTISED OR NEGOTIATED UNDER AUTHORITY AS SHOWN BELOW.

THE ABOVE CONTRACTING OFFICER CERTIFIES THAT THE FOLLOWING IS TRUE AND CORRECT: THAT ANY REQUIRED DETERMINATION AND FINDINGS IN CASE OF NEGOTIATION HAS BEEN MADE OR A STATEMENT OF REASON IN CASE OF REJECTION OF LOW BIDS ATTACHED: THAT THE SUPPLIES OR SERVICES COVERED BY THE AGREEMENT ARE NECESSARY FOR THE PUBLIC SERVICE AND THAT THE PRICES CHARGED ARE JUST AND REASONABLE.

TO BE INSPECTED BY

PROCURED AS S.C.

T AND I

Other As Specified In Schedule

NNT

ZERO

☒ ONE

ADV.

NO. DEALERS

NO. BIDS REC'D.

AWARD TO LOWEST BIDDER AS TO PRICE EXPENDITURE

YES

NO

Statement Attached

CHARGE ALLOTMENT NO.

7155-4102

COST CENTER SYMBOL

7155-4102

REQUISITION NO.

55-8651-67

BUDGET REQ. OFFICE COPY TO

NPIC

NAME - ROOM - BUILDING

NEGOTIATED

PURSUANT TO SEC. 3(A) PL 81-110, 1949

AND APPLICABLE AGENCY REGULATION

PUBLIC EXIGENCY

SHOULD NOT BE PUBLICLY DISCLOSED

☒ IMPRACTICAL TO SECURE COMPETITION

OTHER (SPECIFY)

STOCK

ALLOCATION NO.

SHIPMENT

STATION NO.

VIA

SEA

AIR

POUCH

TRUCK

MEMORANDUM

Contractor's Mailing Address: [redacted]

TO BE OPENED ONLY BY: [redacted]

RELATING TO THIS ORDER/CONTRACT

25X1

25X1 ISSUING OFFICE

ITEM
NO.

SUPPLIES OR SERVICES

UNIT

QUANTITY
(NO. OF
UNITS)

UNIT
PRICE

AMOUNT

AMOUNT
BILLED

SECURITY:

The equipment to be delivered hereunder is UNCLASSIFIED.

The association of the sponsor with the equipment being procured hereunder is classified CONFIDENTIAL. This classified information shall be divulged only on a need-to-know basis and then only to those who have been authorized in writing by this Government component to have access to classified information. Correspondence originated by the Contractor and/or data to be submitted hereunder, the contents of which contain classified information, or refer to the name and/or address of the Contracting Officer shall be stamped by you with the classification of CONFIDENTIAL.

On all invoices submitted under this contract, the Contractor shall include the sponsor approved mailing address for payment.

ILLEGIB

TOTALS CARRIED FORWARD TO FIRST SHEET

☐ UNCLASSIFIED

☒ CONFIDENTIAL

☐ SECRET

(specify)

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REQUEST TO PROCUREMENT DIVISION FOR SERVICES

(other than property or building maintenance and repairs)

* INSTRUCTIONS: (1) As appropriate, refer to Contract, Task Order, Proposal Numbers and attach any proposals, specifications or justifications. Obtain hereon or attach evidence of R & D approval as required by DDCI Memo of 23 December 1963, ER 63-8811. (2) Obtain Technical Officer approval or concurrence as appropriate. (3) Include in the narrative portion amplification of particular security requirements and any delivery or consignee instructions.

REQUEST NO. 55-8651-67	DATE OF REQUEST 30 March 67	PROCUREMENT DIV. ASSIGNMENT NPIC / 20	DATE RECD IN PD. 4/15/67
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TYPE OF SERVICE REQUESTED

REQUESTING OFFICE
NPIC

RESEARCH/DEV. (1) (2) (3)
GRANT (1) (2) (3)
REPAIR (3)
MAINTENANCE (3)
<input checked="" type="checkbox"/> MODIFICATION (1) (2) (3)

OTHER-SPECIFY (2) (3)

ARE AVAILABLE. CHARGE TO FAN 7155-4102
SIGNATURE OF BUDGET OFFICER
DATE 3 APR 1967

STERILITY CODE 0 ☒ 1 2 APPLIES

REPAIR OR MAINTENANCE SERVICE HAS
BEEN SATISFACTORILY COMPLETED

SIGNATURE

DATE

MATERIAL LOCATED OR SERVICES TO BE PERFORMED AT

NARRATIVE DESCRIPTION OF SERVICES REQUESTED

Modify the following government owned equipment in accordance
with proposal attached. (Project 02067)

Model 552A Fibre Optic Viewer
Model 552 Stereo Point Transfer Device

ED Approved by DD/I on 28 March 1967